

**Flood Control Project Maintenance
Levee Inspections**

Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD1001	Overall LMA Rating	Total LMA Miles						
Reclamation District No. 1001 Nicolaus	A	43.74						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	1.28		1.28	2.93%	0.07	0.10		
Trim / Thin Trees	0.08		0.08	0.18%				
Encroachments	0.02		0.02	0.05%	2.87	0.03		
Animal Control	0.01		0.01	0.02%				
Slope Stability	0.16		0.16	0.37%				
Erosion / Bank Caving	0.02		0.02	0.05%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	1.85		1.85	4.23%				
DWR UCIP Field Study					0.25	0.02		
<i>LMA Totals:</i>	3.42	0.00	3.42	7.82%	3.19	0.15	0.00	0.00
Unit No. 01 Yankee Slough RB	Overall Unit Rating	Total Unit Miles						
RD1001	A	4.12						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation					0.05	0.02		
Trim / Thin Trees	0.01		0.01	0.24%				
Encroachments					0.14	0.01		
Slope Stability	0.01		0.01	0.24%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.01			
<i>Unit Totals:</i>	0.02	0.00	0.02	0.49%	0.20	0.03	0.00	0.00
Unit No. 02 Yankee Slough LB	Overall Unit Rating	Total Unit Miles						
RD1001	A	3.65						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation					0.01	0.01		
Encroachments					0.30	0.01		
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.03		0.03	0.82%				
DWR UCIP Field Study					0.03			
<i>Unit Totals:</i>	0.03	0.00	0.03	0.82%	0.34	0.02	0.00	0.00

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Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin (cont.)

Unit No. 03 Bear River LB		Overall Unit Rating	Total Unit Miles						
RD1001		A	12.58						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation	0.08		0.08	0.64%					
Trim / Thin Trees	0.02		0.02	0.16%					
Encroachments	0.01		0.01	0.08%	0.85				
Animal Control	0.01		0.01	0.08%					
Slope Stability	0.10		0.10	0.80%					
Erosion / Bank Caving	0.01		0.01	0.08%					
<i>Supplemental</i>									
2015 USACE Erosion Survey, DRAFT	0.29		0.29	2.31%					
DWR UCIP Field Study					0.03				
<i>Unit Totals:</i>	0.52	0.00	0.52	4.14%	0.88	0.00	0.00	0.00	

Unit No. 04 Feather River LB		Overall Unit Rating	Total Unit Miles						
RD1001		U	13.27						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation	1.20		1.20	9.04%	0.01	0.07			
Trim / Thin Trees	0.04		0.04	0.30%					
Encroachments					0.12	0.01			
Slope Stability	0.05		0.05	0.38%					
Erosion / Bank Caving	0.01		0.01	0.08%					
<i>Supplemental</i>									
2015 USACE Erosion Survey, DRAFT	1.50		1.50	11.30%					
DWR UCIP Field Study					0.07				
<i>Unit Totals:</i>	2.80	0.00	2.80	21.10%	0.20	0.08	0.00	0.00	

Unit No. 05 Natomas Cross Canal RB		Overall Unit Rating	Total Unit Miles						
RD1001		A	5.39						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Encroachments					0.94				
<i>Supplemental</i>									
2015 USACE Erosion Survey, DRAFT	0.03		0.03	0.56%					
DWR UCIP Field Study					0.04				
<i>Unit Totals:</i>	0.03	0.00	0.03	0.56%	0.98	0.00	0.00	0.00	

**Flood Control Project Maintenance
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Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin (cont.)

Unit No. 06 East Side Canal RB		Overall Unit Rating	Total Unit Miles						
RD1001		A	4.74						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Trim / Thin Trees	0.01		0.01	0.21%					
Encroachments	0.01		0.01	0.21%	0.52				
<i>Supplemental</i>									
DWR UCIP Field Study					0.07	0.02			
<i>Unit Totals:</i>	0.02	0.00	0.02	0.42%	0.59	0.02	0.00	0.00	

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2016 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 01 Yankee Slough			Right	4.12
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/25/2016 - 3/25/2016		9/20/2016 - 9/20/2016	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Joe Henderson RD1001		Joe Henderson RD1001	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	09/20/2016 09/20/2016	Sterling York

LM Start		Rating **	A	Issue No.	1
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Emergency Supplies & Equipment			°	
				°	
DWR ID	DWR_RD1001_01_s_2012_1				
Comment Code					
Inspector Comment					
The LMA has flood fight supplies on hand at their district office.					

No Photos

LM Start		Rating **	A	Issue No.	2
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Flood Preparedness & Training			°	
				°	
DWR ID	DWR_RD1001_01_s_2012_2				
Comment Code					
Inspector Comment					
The LMA participates in the flood fight class put on by RD784 and DWR annually.					

No Photos

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Operations & Maintenance Manuals			°	
				°	
DWR ID	DWR_RD1001_01_s_2012_3				
Comment Code					
Inspector Comment					
The LMA has a copy of the O&M manuals at the district office.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 1001 Nicolaus

View of the maintained vegetation on the landside looking upstream. Fall 2016.

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Reclamation District No. 1001 Nicolaus

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	09/20/2016 09/20/2016	Sterling York

LM Start	0.42	Rating **	M	Issue No.	16
LM End	0.42	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.975782 °	38.975782 °
				-121.475321 °	-121.475321 °
DWR ID	DWR_RD1001_01_s_2015_16				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_36_16_20160906_00011.jpg



Concrete debris on landside slope looking downstream.

LM Start	0.59	Rating **	M	Issue No.	14
LM End	0.59	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.975115 °	38.975115 °
				-121.478247 °	-121.478247 °
DWR ID	DWR_RD1001_01_f_2015_14				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 2 : FA_2016_RD1001_36_14_20160906_00009.jpg



View of pruning after burning Spring 2016.

LM Start	0.59	Rating **	M	Issue No.	14 (cont)
LM End	0.59	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2016_RD1001_36_14_20160926_00018.jpg



View of the prunings at the landside levee toe. Fall 2016.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	09/20/2016 09/20/2016	Sterling York

LM Start	0.93	Rating **	A	Issue No.	24
LM End	1.55	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.974705 °	38.970573 °
				-121.484468 °	-121.494452 °
DWR ID	DWR_RD1001_01_f_2016_24				
Comment Code					
PO : Pole					
Inspector Comment					
Poles on landside crown and then they move over to the waterside slope.					

Photo 1 of 1 : FA_2016_RD1001_36_24_20160926_00028.jpg



View of a line of poles that start on the landside then cross over to the waterside at approximately half the length. This is looking upstream from the downstream end of the line. Fall 2016.

LM Start	0.95	Rating **	U	Issue No.	15
LM End	0.95	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.974569 °	38.974569 °
				-121.484815 °	-121.484815 °
DWR ID	DWR_RD1001_01_s_2012_15				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_36_15_20160906_00010.jpg



View of the landscaping on the landside levee slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	09/20/2016 09/20/2016	Sterling York

LM Start	1.29	Rating **	M	Issue No.	7
LM End	1.29	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.972655 °	38.972655 °
				-121.490643 °	-121.490643 °
DWR ID	DWR_RD1001_01_f_2014_7				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_36_7_20160906_00005.jpg



This photo was taken from the levee crown facing east looking down the landward slope at prunings stacked up at the toe. Fall 2014.

LM Start	1.40	Rating **	M	Issue No.	25
LM End	1.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.971589 °	38.971589 °
				-121.492049 °	-121.492049 °
DWR ID	DWR_RD1001_01_f_2016_25				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_36_25_20160926_00029.jpg



View of tier ruts on the landside levee slope looking upstream. Fall 2016.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	09/20/2016 09/20/2016	Sterling York

LM Start	1.53	Rating **	M	Issue No.	27
LM End	1.53	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.970622 °	38.970622 °
				-121.494171 °	-121.494171 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42016 DS_ID:22526 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Dense vegetation should be removed. FIELD_STRUCT_DESC: 36-inch standpipe at the landward toe, service pole at the landward toe. FS Date: 5/22/2013					

No Photos

LM Start	1.67	Rating **	M	Issue No.	23
LM End	1.67	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.970691 °	38.970691 °
				-121.496618 °	-121.496618 °
DWR ID	DWR_RD1001_01_f_2016_23				
Comment Code					
EQ : Equipment					
Inspector Comment					
Equipment needs to be moved away from levee toe.					

Photo 1 of 1 : FA_2016_RD1001_36_23_20160926_00027.jpg



View of equipment at the landside levee toe. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	09/20/2016 09/20/2016	Sterling York

LM Start	2.01	Rating **	M	Issue No.	22
LM End	2.01	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.971093 °	38.971093 °
				-121.502895 °	-121.502895 °
DWR ID	DWR_RD1001_01_f_2016_22				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_36_22_20160926_00026.jpg



View of pruning's on the landside toe looking upstream. Fall 2016.

LM Start	2.22	Rating **	M	Issue No.	6
LM End	2.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.969331 °	38.969331 °
				-121.505978 °	-121.505978 °
DWR ID	DWR_RD1001_01_f_2014_6				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_36_6_20160926_00025.jpg



This photo was taken of the landside looking upstream at prunings stacked up at the toe. Fall 2016.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Reclamation District No. 1001 Nicolaus

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	09/20/2016 09/20/2016	Sterling York

LM Start	3.12	Rating **	M	Issue No.	5
LM End	3.17	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.965663 °	38.965705 °
				-121.521023 °	-121.522098 °
DWR ID	DWR_RD1001_01_s_2012_5				
Comment Code					
V6 : Landscaping					
Inspector Comment					

LM Start	3.12	Rating **	M	Issue No.	5 (cont)
LM End	3.17	Issue Type +	En	Location *	LS

Unit 1 Landscaping on levee slope. L/S

A gravel road stretches into the distance, flanked by lush greenery. On the right side, large, flat-topped cacti are prominent, surrounded by other dense foliage. The road is bordered by dry, yellowish grass on the left. The sky is clear and blue, and the overall scene is bright and sunny.

View of landscaping on landside slope.

LM Start	3.13	Rating **	M	Issue No.	20
LM End	3.17	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.965663 °	38.965672 °
				-121.521267 °	-121.521919 °
DWR ID	DWR_RD1001_01_f_2016_20				
Comment Code					
FE : Fence					
Inspector Comment					
Land owner has installed an unpermitted fence on the landside levee slope.					

View of a fence on the landside levee slope looking upstream. Fall 2016.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

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Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	09/20/2016 09/20/2016	Sterling York

LM Start	3.19	Rating **	U	Issue No.	8
LM End	3.19	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.965694 °	38.965694 °
				-121.522424 °	-121.522424 °
DWR ID	DWR_RD1001_01_f_2015_8				
Comment Code					
BU : Building					
Inspector Comment					
Remove debris and building to allow visibility and access to landside levee toe.					

Photo 1 of 1 : FA_2016_RD1001_36_8_20160906_00006.jpg



View of the shed at the landside levee toe.

LM Start	3.21	Rating **	U	Issue No.	4
LM End	3.21	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.965699 °	38.965699 °
				-121.522790 °	-121.522790 °
DWR ID	DWR_RD1001_01_f_2015_4				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_36_4_20160906_00001.jpg



View of the landscaping at the landside levee toe.

LM Start	3.59	Rating **	M	Issue No.	18
LM End	3.59	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.965368 °	38.965368 °
				-121.529358 °	-121.529358 °
DWR ID	DWR_RD1001_01_f_2016_18				
Comment Code					
DE : Debris					
Inspector Comment					
Irrigation pipe piled on landside toe.					

Photo 1 of 1 : FA_2016_RD1001_36_18_20160926_00020.jpg



View of a pile of irrigation pipe on the landside levee toe looking upstream. Fall 2016.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Levee Inspections**

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Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	09/20/2016 09/20/2016	Sterling York

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 02 Yankee Slough			Left	3.65
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/25/2016 - 3/25/2016		9/20/2016 - 9/20/2016	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Joe Henderson RD1001		Joe Henderson RD1001	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Reclamation District No. 1001 Nicolaus

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	09/20/2016 09/20/2016	Sterling York

LM Start	0.24	Rating **	M	Issue No.	54
LM End	0.24	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.974103 °	38.974103 °
				-121.475948 °	-121.475948 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41673					
DS_ID:22536					
EP_NO: 5562					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe appears abandoned and if so should be done so properly. WS pipe plugged with stopper. Seems abandoned. Only abandoned pump base found.					
FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee, 3.5 feet below the crown, pump (removed) and pump base on the waterward berm, siphon breaker on the landward shoulder, pipe discharges into underground irrigation system on the landward side. Power pole and meter box 10 feet from the landward toe, 1-1/2-inch flexible conduit through levee, 3.5 feet below crown (Permit No. 5562, 1966)					
FS Date: 5/23/2013					

LM Start	0.24	Rating **	M	Issue No.	54 (cont)
LM End	0.24	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_41673_22745.jpg



Levee Crown: dense vegetation on levee crown and sides.

Photo 2 of 2 : UCIP_FA_2016_41673_22744.jpg



WS- plugged pipe and pump base.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	09/20/2016 09/20/2016	Sterling York

LM Start	0.27	Rating **	A/W	Issue No.	4
LM End	0.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.974323 °	38.974323 °
				-121.476442 °	-121.476442 °
DWR ID	DWR_RD1001_02_f_2014_4				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There is no animal activity at this location, the existing hole near the crown needs to be repaired, Fall 2016.					

LM Start	0.27	Rating **	A/W	Issue No.	4 (cont)
LM End	0.27	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : FA_2016_RD1001_35_4_20160906_00001.jpg



This photo was taken from the levee crown facing east looking down the waterward slope at an animal burrow. Fall 2014.

Photo 2 of 3 : FA_2016_RD1001_35_4_20160906_00002.jpg



Another picture of the animal burrow. Fall 2014.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	09/20/2016 09/20/2016	Sterling York

LM Start	0.27	Rating **	A/W	Issue No.	4 (cont)	
LM End	0.27	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			38.974323 °		38.974323 °
				-121.476442 °		-121.476442 °
DWR ID	DWR_RD1001_02_f_2014_4					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
There is no animal activity at this location, the existing hole near the crown needs to be repaired, Fall 2016.						

Photo 3 of 3 : FA_2016_RD1001_35_4_20160926_00021.jpg



Although hard to see with the grass, there is still an animal hole on waterward levee slope near the crown at this location. Hole was approximately 1' in diameter and 8" deep that needs to be repaired. There is no animal activity at this location. Fall 2016.

LM Start	0.47	Rating **	M	Issue No.	55
LM End	0.47	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.974329 °	38.974329 °
				-121.480043 °	-121.480043 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50740 DS_ID:22529 EP_NO: 2281 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 07/13/2016 According to district president Joe Henderson, pipe was removed 2-3 years ago. No permit for removal found or evidence of pipe or its removal found. (K. Fazel - UCIP)05/23/2013:- leaky pipe end and erosion on WS.- cracked dirt mound on LS - seems not been used for some time. (P. Amatya - DWR) FIELD_STRUCT_DESC: *REMOVED* 8-inch steel irrigation pipe through the levee, 1.9 feet below the crown. Portable pump mounted on the bank during the summer months. Control valve on the waterside (WS), steel plate bolted on the WS end during the winter months. Pipe discharges into a 30-inch concrete standpipe at the landside (LS) toe. (Permit No. 2281, 1956 - Brown) [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 7/13/2016					

Photo 1 of 2 : UCIP_FA_2016_50740_22753.jpg



WS- end of the pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	09/20/2016 09/20/2016	Sterling York

LM Start	0.47	Rating **	M	Issue No.	55 (cont)	
LM End	0.47	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.974329 °	38.974329 °	
				-121.480043 °	-121.480043 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50740 DS_ID:22529 EP_NO: 2281 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 07/13/2016 According to district president Joe Henderson, pipe was removed 2-3 years ago. No permit for removal found or evidence of pipe or its removal found. (K. Fazel - UCIP)05/23/2013:- leaky pipe end and erosion on WS.- cracked dirt mound on LS - seems not been used for some time. (P. Amatya - DWR) FIELD_STRUCT_DESC: *REMOVED* 8-inch steel irrigation pipe through the levee, 1.9 feet below the crown. Portable pump mounted on the bank during the summer months. Control valve on the waterside (WS), steel plate bolted on the WS end during the winter months. Pipe discharges into a 30-inch concrete standpipe at the landside (LS) toe. (Permit No. 2281, 1956 - Brown) [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 7/13/2016						

Photo 2 of 2 : UCIP_FA_2016_50740_22752.jpg



WS- seems abandoned or not been used for some time.

LM Start	0.53	Rating **	M	Issue No.	19
LM End	0.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.974371 °	38.974371 °
				-121.481223 °	-121.481223 °
DWR ID	DWR_RD1001_02_f_2016_19				
Comment Code					
AV : Abandoned vehicles					
Inspector Comment					
Two boats parked at the landside levee toe that need to be removed.					

Photo 1 of 1 : FA_2016_RD1001_35_19_20160926_00023.jpg



View of two boat at the landside levee toe. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 1001 Nicolaus

View of the landscaping at the landside levee toe.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	09/20/2016 09/20/2016	Sterling York

LM Start	0.78	Rating **	M	Issue No.	22
LM End	0.78	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.973509 °	38.973509 °
				-121.485668 °	-121.485668 °
DWR ID	DWR_RD1001_02_f _ 2016_22				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_35_22_20160926_00025.jpg



View of debris pile on the landside levee slope looking downstream. Fall 2016.

LM Start	0.78	Rating **	C	Issue No.	7
LM End	0.78	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.973605 °	38.973605 °
				-121.485728 °	-121.485728 °
DWR ID	DWR_RD1001_02_s_2012_7				
Comment Code					
PR : Prunings					
Inspector Comment					
The pruning's have been removed from this location.					

No Photos

LM Start	1.11	Rating **	C	Issue No.	8
LM End	1.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.971547 °	38.971547 °
				-121.490968 °	-121.490968 °
DWR ID	DWR_RD1001_02_s_2015_8				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
The trees in this area have been trimmed back and are no longer an issue.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	09/20/2016 09/20/2016	Sterling York

LM Start	1.20	Rating **	C	Issue No.	9
LM End	1.20	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.970712 °	38.970712 °
				-121.492348 °	-121.492348 °
DWR ID	DWR_RD1001_02_f_2013_9				
Comment Code					
PR : Prunings					
Inspector Comment					
Pruning's have been burned. The farmer had disturbed the slope so RD1001 went in and dressed up the slope. Fall 2016.					

No Photos

LM Start	1.31	Rating **	M	Issue No.	12
LM End	1.31	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.969830 °	38.969830 °
				-121.493994 °	-121.493994 °
DWR ID	DWR_RD1001_02_s_2015_12				
Comment Code					
MA : Material					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_35_12_20160926_00027.jpg



View of a pile of soil on the waterside slope looking downstream. Fall 2016.

LM Start	1.33	Rating **	M	Issue No.	1
LM End	1.36	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.969740 °	38.969640 °
				-121.494327 °	-121.494829 °
DWR ID	DWR_RD1001_02_s_2016_1				
Comment Code					
Inspector Comment					
2011 - New erosion site. Steep eroding slope. Fairly old scarp with vegetation growth. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: YAS_1-7_L]					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	09/20/2016 09/20/2016	Sterling York

LM Start	1.70	Rating **	M	Issue No.	23
LM End	1.70	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.970260 °	38.970260 °
				-121.501246 °	-121.501246 °
DWR ID	DWR_RD1001_02_f_2016_23				
Comment Code					
TA : Tank					
Inspector Comment					
Two tanks that are at the landside levee toe and should be moved from the easement.					

Photo 1 of 1 : FA_2016_RD1001_35_23_20160926_00028.jpg



View of two tanks that are at the landside levee toe. Fall 2016.

LM Start	1.71	Rating **	M	Issue No.	18
LM End	1.71	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.970264 °	38.970264 °
				-121.501343 °	-121.501343 °
DWR ID	DWR_RD1001_02_s_2016_18				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_35_18_20160906_00009.jpg



Shed at landside toe.

LM Start	1.74	Rating **	U	Issue No.	10
LM End	1.74	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.970353 °	38.970353 °
				-121.501935 °	-121.501935 °
DWR ID	DWR_RD1001_02_s_2012_10				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_35_10_20160906_00005.jpg



RD 1001 Unit 2 - L/S -Landscaping - Trees

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	09/20/2016 09/20/2016	Sterling York

LM Start	1.75	Rating **	U	Issue No.	11
LM End	1.75	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.970347 °	38.970347 °
				-121.502027 °	-121.502027 °
DWR ID	DWR_RD1001_02_s_2012_11				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_35_11_20160906_00006.jpg



RD 1001 Unit 2 - L/S -Building @ toe.

LM Start	1.76	Rating **	A/W	Issue No.	5
LM End	1.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.970265°	38.970265°
				-121.502348°	-121.502348°
DWR ID	DWR_RD1001_02_f_2015_5				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	1.88	Rating **	N	Issue No.	6
LM End	1.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.969489 °	38.969489 °
				-121.504155 °	-121.504155 °
DWR ID	DWR_RD1001_02_f_2015_6				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Large stump at the landside levee toe should be removed.					

Photo 1 of 1 : FA_2016_RD1001_35_6_20160926_00029.jpg



View of large stump at the landside levee toe. Fall 2016.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Reclamation District No. 1001 Nicolaus

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	09/20/2016 09/20/2016	Sterling York

LM Start	2.28	Rating **	M	Issue No.	53
LM End	2.28	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.967403 °	38.967403 °
				-121.510953 °	-121.510953 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:14008					
DS_ID:22543					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - slide gate in inlet pipe on landside - pits on pipe due to corrosion					
FIELD_STRUCT_DESC: 36-inch corrugated-metal drainage pipe through the levee, 15.0 feet below the crown, concrete-U headwall and flap gate at outfall on the waterward end and slide gate on landside inlet (R.D. No. 1001). O&M Manual Sac 141, August 1955.					
FS Date: 5/23/2013					

Photo 1 of 2 : UCIP_FA_2016_14008_23108.jpg



WS- overview of waterside of the levee.

LM Start	2.28	Rating **	M	Issue No.	53 (cont)
LM End	2.28	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_14008_23107.jpg



WS- outfall pipe with flap gate in concrete wing wall.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 1001 Nicolaus

No Photos

View of stockpiled flood fight material. Fall 2016.

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 03 Bear River			Left	12.58
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/25/2016 - 3/25/2016		9/20/2016 - 9/20/2016	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Joe Henderson RD1001		Joe Henderson RD1001	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Reclamation District No. 1001 Nicolaus

View of maintained vegetation on the waterside looking downstream.
Fall 2016.

Page 1 of 24

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	0.11	Rating **	M	Issue No.	2
LM End	0.11	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.006569 °	39.006569 °
				-121.377037 °	-121.377037 °
DWR ID	DWR_RD1001_03_f_2013_2				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Rutting caused by vehicles driving up the landward levee slope.					

LM Start	0.11	Rating **	M	Issue No.	2 (cont)
LM End	0.11	Issue Type +	Ma	Location *	CR

Photo 1 of 2 : FA_2016_RD1001_37_2_20160906_00003.jpg



This photo was taken from the crown of the levee facing west looking down the slope at rutting caused by vehicles driving up the landward levee slope. Fall 2015.

Photo 2 of 2 : FA_2016_RD1001_37_2_20160926_00039.jpg



View of the same rutting on the landside of the levee facing downstream. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	0.14	Rating **	M	Issue No.	23
LM End	0.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.006351 °	39.006351 °
				-121.377313 °	-121.377313 °
DWR ID	DWR_RD1001_03_s_2015_23				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Rutting caused by vehicles driving up the landward levee slope.					

Photo 1 of 1 : FA_2016_RD1001_37_23_20160906_00014.jpg



View of the rutting on the landside of the levee from the toe facing downstream.

LM Start	0.88	Rating **	M	Issue No.	911
LM End	0.88	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.006508 °	39.006508 °
				-121.391086 °	-121.391086 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:14128 DS_ID:22549 EP_NO: 958 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - slide gate on WS not found- needs abandoned properly. FIELD_STRUCT_DESC: Abandoned 24-inch irrigation pipe through the levee.(Permit No. 958, 1944) FS Date: 5/21/2013					

Photo 1 of 2 : UCIP_FA_2016_14128_23308.jpg



WS- abandoned CMP on berm of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	0.88	Rating **	M	Issue No.	911 (cont)
LM End	0.88	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.006508 °	39.006508 °
				-121.391086 °	-121.391086 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:14128 DS_ID:22549 EP_NO: 958 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - slide gate on WS not found- needs abandoned properly. FIELD_STRUCT_DESC: Abandoned 24-inch irrigation pipe through the levee.(Permit No. 958, 1944) FS Date: 5/21/2013					

WS- abandoned CMP and depression around it.

LM Start	1.16	Rating **	M	Issue No.	3
LM End	1.78	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.005730 °	38.999534 °
				-121.396111 °	-121.404395 °
DWR ID	DWR_RD1001_03_s_2012_3				
Comment Code					
PO : Pole					
Inspector Comment					
Unpermitted Power Poles on the crown along waterside shoulder.					

A photograph showing a dirt road or path curving to the left. On the right side of the road, there is a line of utility poles with cross-arms. Large, mature trees are situated behind the poles. The sky is clear and blue. A date stamp '09/20/2016' is visible in the bottom right corner of the image.

View of Power Poles along waterside shoulder. Fall 2016.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	1.85	Rating **	M	Issue No.	913
LM End	1.85	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.998780 °	38.998780 °
				-121.405322 °	-121.405322 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41727					
DS_ID:22561					
EP_NO: 4505					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Two small steel pipes sleeved through 30-inch CMP may be a compliance issue as slidegate cannot close.- this may have been converted into drainage pipe (?) - big CMP standpipe on WS.					
FIELD_STRUCT_DESC: 30-inch concrete-encased corrugated-metal irrigation pipe through the levee, 11.0 feet below the crown, concrete headwall at the waterward toe, metal walkway on the waterward side to the slide gate, pipe discharges into a 48-inch concrete standpipe at the landward toe, two vertical pumps (Permit No. 4505, 1964). O&M Manual Sac 141.1, August 1955.					
FS Date: 5/21/2013					

Photo 1 of 2 : UCIP_FA_2016_41727_23325.jpg



WS- steel walkway, CMP and concrete headwall

LM Start	1.85	Rating **	M	Issue No.	913 (cont)
LM End	1.85	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_41727_23324.jpg



WS- CMP standpipe, pipes and concrete headwall.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 1001 Nicolaus

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	2.28	Rating **	A/W	Issue No.	30 (cont)	
LM End	2.28	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Slope Stability			38.996302 °	38.996302 °	
				-121.412285 °	-121.412285 °	
DWR ID	DWR_RD1001_03_s _ 2013_30					
Comment Code						
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.						
Inspector Comment						
Damage to landside slope has been repaired. Continue to monitor area.						

Photo 2 of 2 : FA_2016_RD1001_37_30_20160926_00043.jpg



Damage to landside slope has been repaired. Fall 2016.

LM Start	2.41	Rating **	C	Issue No.	33
LM End	2.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.995895 °	38.995895 °
				-121.414622 °	-121.414622 °
DWR ID	DWR_RD1001_03_s _ 2015_33				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
The landside slope damage has been corrected.					

No Photos

LM Start	2.57	Rating **	A/W	Issue No.	34
LM End	2.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.995642 °	38.995642 °
				-121.417626 °	-121.417626 °
DWR ID	DWR_RD1001_03_s _ 2015_34				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are blocking slope visibility.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	2.59	Rating **	M	Issue No.	912
LM End	2.59	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.995584 °	38.995584 °
				-121.417982 °	-121.417982 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:41722
DS_ID:22562
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Verify pipe has been abandoned properly.- pump mounted on the riverbank not found, - butterfly valve in a 30-inch concrete riser at the waterward toe not found,- concrete box on landside not found- a big tree inside concrete standpipe on landside found.
FIELD_STRUCT_DESC: Abandoned 22-inch steel pipe through the levee, 18.3 feet below the crown, pump mounted on the riverbank, butterfly valve in a 30-inch concrete riser at the waterward toe, pipe discharges into a concrete box and concrete standpipe on the landward side, steel plate bolted on the waterward end of the pipe during the winter months (California Packing Co.)
FS Date: 5/21/2013

LM Start	2.59	Rating **	M	Issue No.	912 (cont)
LM End	2.59	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_41722_23338.jpg



WS- only a steel pipe found on riverbank.

Photo 2 of 2 : UCIP_FA_2016_41722_23337.jpg



LS- a big tree inside concrete standpipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 1001 Nicolaus

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	2.96	Rating **	M	Issue No.	42
LM End	2.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.994157°	38.994157°
				-121.424520°	-121.424520°
DWR ID	DWR_RD1001_03_f_2013_42				
Comment Code					
DE : Debris					
Inspector Comment					
Remove couch on levee slope.					

Photo 1 of 1 : FA_2016_RD1001_37_42_20160926_00048.jpg



View of a couch on the landside levee slope looking downstream. Fall 2016.

LM Start	3.13	Rating **	M	Issue No.	19
LM End	3.13	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.993446°	38.993446°
				-121.427490°	-121.427490°
DWR ID	DWR_RD1001_03_f_2016_19				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_37_19_20160926_00049.jpg



View of prunings on landside levee slope looking downstream. Fall 2016.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	3.52	Rating **	M	Issue No.	906
LM End	3.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.991745 °	38.991745 °
				-121.434398 °	-121.434398 °
DWR ID	DWR_RD1001_03_s_2012_906				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	3.55	Rating **	M	Issue No.	21
LM End	3.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.991454 °	38.991217 °
				-121.435031 °	-121.436057 °
DWR ID	DWR_RD1001_03_s_2016_21				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_37_21_20160906_00013.jpg



Erosion on waterside slope. Remains as of Fall 2016.

LM Start	3.61	Rating **	M	Issue No.	20
LM End	3.69	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.991230 °	38.991207 °
				-121.435918 °	-121.437433 °
DWR ID	DWR_RD1001_03_f_2016_20				
Comment Code					
PO : Pole					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	3.62	Rating **	C	Issue No.	41
LM End	3.72	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.991212 °	38.991208 °
				-121.436158 °	-121.437995 °
DWR ID	DWR_RD1001_03_s_2015_41				
Comment Code					
PR : Prunings					
Inspector Comment					
Existing prunings have been removed from this location.					

No Photos

LM Start	3.82	Rating **	C	Issue No.	35
LM End	3.82	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.991208 °	38.991208 °
				-121.439943 °	-121.439943 °
DWR ID	DWR_RD1001_03_s_2013_35				
Comment Code					
FW : Firewood					
Inspector Comment					
The wood on the landside toe has been removed from this location.					

No Photos

LM Start	4.03	Rating **	M	Issue No.	7
LM End	4.09	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.991299 °	38.991413 °
				-121.443830 °	-121.444865 °
DWR ID	DWR_RD1001_03_s_2012_7				
Comment Code					
MA : Material					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_37_7_20160906_00008.jpg



Irrigation pipe equipment and plastic cans within the easement of the levee. Spring 2013

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	4.06	Rating **	A/W	Issue No.	24
LM End	4.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.991370 °	38.991370 °
				-121.444351 °	-121.444351 °
DWR ID	DWR_RD1001_03_f_2016_24				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	4.28	Rating **	C	Issue No.	26
LM End	4.28	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.992054 °	38.992054 °
				-121.448382 °	-121.448382 °
DWR ID	DWR_RD1001_03_f_2016_26				
Comment Code					
PR : Prunings					
Inspector Comment					
Pruning's have been burned and no longer exist at this location.					

No Photos

LM Start	4.46	Rating **	M	Issue No.	9
LM End	4.46	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.991867 °	38.991867 °
				-121.451743 °	-121.451743 °
DWR ID	DWR_RD1001_03_s_2013_9				
Comment Code					
MA : Material					
Inspector Comment					
Drip irrigation tubing has been removed that was within the easement of the landside levee. There is a new pile of pruning's at the toe.					

Photo 1 of 2 : FA_2016_RD1001_37_9_20160906_00010.jpg



Drip irrigation tubing within the easement of the levee. Spring 2013

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	4.46	Rating **	M	Issue No.	9 (cont)	
LM End	4.46	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.991867 °		38.991867 °
				-121.451743 °		-121.451743 °
DWR ID	DWR_RD1001_03_s_2013_9					
Comment Code						
MA : Material						
Inspector Comment						
Drip irrigation tubing has been removed that was within the easement of the landside levee. There is a new pile of pruning's at the toe.						

Photo 2 of 2 : FA_2016_RD1001_37_9_20160926_00052.jpg



Drip irrigation tubing has been removed that was within the easement of the landside levee. There is a new pile of pruning's at the toe. Fall 2016

LM Start	4.48	Rating **	M	Issue No.	31
LM End	4.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.991851 °	38.991851 °
				-121.452116 °	-121.452116 °
DWR ID	DWR_RD1001_03_f_2016_31				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_37_31_20160926_00055.jpg



View of erosion in the landside levee slope looking downstream. Fall 2016.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	4.65	Rating **	M	Issue No.	58
LM End	4.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.991551 °	38.991551 °
				-121.455092 °	-121.455092 °
DWR ID	DWR_RD1001_03_s_2012_58				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	4.69	Rating **	M	Issue No.	12
LM End	4.69	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.991424 °	38.991424 °
				-121.455839 °	-121.455839 °
DWR ID	DWR_RD1001_03_s_2012_12				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_37_12_20160926_00054.jpg



View of pruning's on the landside slope. Fall 2016.

LM Start	4.82	Rating **	M	Issue No.	910
LM End	4.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.990773 °	38.990773 °
				-121.458203 °	-121.458203 °
DWR ID	DWR_RD1001_03_s_2012_910				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

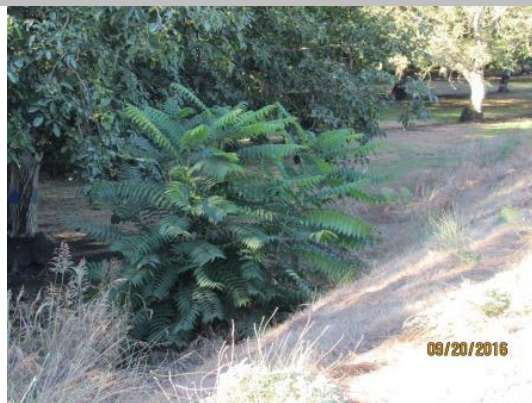
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	5.64	Rating **	C	Issue No.	43
LM End	5.64	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.986637 °	38.986637 °
				-121.472467 °	-121.472467 °
DWR ID	DWR_RD1001_03_s_2016_43				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	5.81	Rating **	M	Issue No.	32
LM End	5.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.985882 °	38.985882 °
				-121.475394 °	-121.475394 °
DWR ID	DWR_RD1001_03_f_2016_32				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trees less than 4" in diameter should be removed.					

Photo 1 of 1 : FA_2016_RD1001_37_32_20160926_00056.jpg



View of starter tree with diameter less than 4". Fall 2016.

LM Start	6.47	Rating **	M	Issue No.	40
LM End	6.47	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.984020 °	38.984020 °
				-121.487404 °	-121.487404 °
DWR ID	DWR_RD1001_03_f_2016_40				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_37_40_20160926_00058.jpg



View of slope instability on the waterside at gate caused by foot traffic. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	6.47	Rating **	M	Issue No.	38
LM End	6.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.984019 °	38.984019 °
				-121.487404 °	-121.487404 °
DWR ID	DWR_RD1001_03_s_2013_38				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 2 : FA_2016_RD1001_37_38_20160906_00022.jpg



Erosion caused by run off from the roadway. Spring 2013

LM Start	6.47	Rating **	M	Issue No.	38 (cont)
LM End	6.47	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_RD1001_37_38_20160926_00057.jpg



Erosion caused by run off from the roadway still exist. Fall 2016.

LM Start	6.85	Rating **	M	Issue No.	39
LM End	6.85	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.983328°	38.983328°
				-121.494400°	-121.494400°
DWR ID	DWR_RD1001_03_s_2013_39				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_37_39_20160906_00023.jpg



Walnut stumps within the easement of the levee.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	7.07	Rating **	M	Issue No.	46
LM End	7.07	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.982850 °	38.982850 °
				-121.498516 °	-121.498516 °
DWR ID	DWR_RD1001_03_s_2016_46				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_37_46_20160926_00059.jpg



Prunings at landside toe. Fall 2016.

LM Start	7.08	Rating **	M	Issue No.	45
LM End	7.08	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.982844 °	38.982844 °
				-121.498569 °	-121.498569 °
DWR ID	DWR_RD1001_03_s_2015_45				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_37_45_20160906_00024.jpg



PVC pipe and debris at landside toe.

LM Start	7.22	Rating **	M	Issue No.	17
LM End	7.31	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.982737 °	38.982572 °
				-121.501144 °	-121.502797 °
DWR ID	DWR_RD1001_03_s_2016_17				
Comment Code					
Inspector Comment					
2008 - Sandy/silty banks with rotational slab failures creating near vertical bank with pop-outs due to tree failures. Narrow berm. 2015: Last observed in 2013. [2015 Site ID: BER_5-7_L]					

Photo 1 of 1 : FA_2016_RD1001_37_17_20160906_00012.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	9.22	Rating **	C	Issue No.	8
LM End	9.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.970024 °	38.970719 °
				-121.531848 °	-121.533859 °
DWR ID	DWR_RD1001_03_f_2015_8				
Comment Code					
PI : Pipe					
Inspector Comment					
Large CM pipe laying on the waterside slope has been removed.					

No Photos

LM Start	9.31	Rating **	M	Issue No.	44
LM End	9.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.970576 °	38.970576 °
				-121.533334 °	-121.533334 °
DWR ID	DWR_RD1001_03_f_2016_44				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	9.69	Rating **	M	Issue No.	48
LM End	9.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.969242 °	38.969242 °
				-121.537725 °	-121.537725 °
DWR ID	DWR_RD1001_03_f_2016_48				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Existing rodent hole are no longer active. When holes are filled, rating can be changed to "C" corrected.					

Photo 1 of 1 : FA_2016_RD1001_37_48_20160926_00060.jpg



View of existing rodent hole that are no longer active on the landside slope. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	10.03	Rating **	A	Issue No.	49
LM End	10.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.969150 °	38.965841 °
				-121.543573 °	-121.543958 °
DWR ID	DWR_RD1001_03_f _ 2016_49				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_37_49_20160926_00061.jpg



View of fence on the landside hinge point looking downstream. Fall 2016.

LM Start	10.36	Rating **	M	Issue No.	10
LM End	10.40	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.964583 °	38.964010 °
				-121.544967 °	-121.545228 °
DWR ID	DWR_RD1001_03_s_2016_10				
Comment Code					
Inspector Comment					
2011 - Large section of bank has slumped off. RD has flagged and appears to be watching. 2012 - Slopes slightly steeper. 2013 - Minor new erosion observed. 2015: Last observed in 2013. [2015 Site ID: BER_2-5_L]					

Photo 1 of 1 : FA_2016_RD1001_37_10_20160906_00011.jpg



USACE 2013 Photo #1

LM Start	10.49	Rating **	M	Issue No.	11
LM End	10.49	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.962770 °	38.962770 °
				-121.545741 °	-121.545741 °
DWR ID	DWR_RD1001_03_f_2015_11				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_37_11_20160926_00062.jpg



View of building at the landside toe. Fall 2016.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	10.58	Rating **	C	Issue No.	47
LM End	10.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.961602 °	38.961602 °
				-121.546464 °	-121.546464 °
DWR ID	DWR_RD1001_03_s_2015_47				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trees have been trimmed up at this location.					

No Photos

LM Start	10.75	Rating **	A/W	Issue No.	50
LM End	10.96	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.959066 °	38.956212 °
				-121.546964 °	-121.547953 °
DWR ID	DWR_RD1001_03_f_2013_50				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_37_50_20160926_00063.jpg



Revegetation has been done in this area on the waterside. Visibility is minimal. Fall 2016.

LM Start	11.08	Rating **	M	Issue No.	1
LM End	11.16	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.955070 °	38.954227 °
				-121.549528 °	-121.550592 °
DWR ID	DWR_RD1001_03_s_2016_1				
Comment Code					
Inspector Comment					
2011 - Large slumped sections of bank. 2012 - Slopes slightly steeper. 2015: Last observed in 2013. [2015 Site ID: BER_1-9_L]					

Photo 1 of 1 : FA_2016_RD1001_37_1_20160906_00001.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	11.15	Rating **	C	Issue No.	6	
LM End	11.15	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.954167 °		38.954167 °
				-121.550304 °		-121.550304 °
DWR ID	DWR_RD1001_03_s_2016_6					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Wild growth at landside toe has been burned off.						

No Photos

LM Start	11.23	Rating **	M	Issue No.	22
LM End	11.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.953367 °	38.953025 °
				-121.551428 °	-121.551808 °
DWR ID	DWR_RD1001_03_s_2012_22				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	11.59	Rating **	A/W	Issue No.	25
LM End	11.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.951302°	38.950960°
				-121.556872°	-121.560717°
DWR ID	DWR_RD1001_03_s_2013_25				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_37_25_20160906_00015.jpg



Revegetation site in progress. Spring 2013

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	11.59	Rating **	C	Issue No.	51
LM End	11.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.951263 °	38.951263 °
				-121.557037 °	-121.557037 °
DWR ID	DWR_RD1001_03_f_2016_51				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Existing rodent hole are no longer active. When holes are filled, rating can be changed to "C" corrected.					

No Photos

LM Start	11.84	Rating **	A/W	Issue No.	52
LM End	11.84	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.950478 °	38.950478 °
				-121.561227 °	-121.561227 °
DWR ID	DWR_RD1001_03_f_2013_52				
Comment Code					
BU : Building					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	12.07	Rating **	M	Issue No.	4
LM End	12.16	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.947591 °	38.946477 °
				-121.563390 °	-121.564094 °
DWR ID	DWR_RD1001_03_s_2016_4				
Comment Code					
Inspector Comment					
2006 - Multiple rotational failures in the berm. Erosion is into the levee toe and lower slope. Tension cracks extensive at top of bank. Cohesive toe creates a bench on which failures occur. 2007 - Still steep bank with some berm with pistol-butted reeds. 2012 - Site extended upstream due to additional slumping. Slopes slightly steeper. 2015: Last observed in 2013. [2015 Site ID: BER_0-8_L]					

Photo 1 of 1 : FA_2016_RD1001_37_4_20160906_00005.jpg



USACE 2013 Photo #1

LM Start	12.18	Rating **	M	Issue No.	27
LM End	12.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.946248 °	38.946248 °
				-121.564220 °	-121.564220 °
DWR ID	DWR_RD1001_03_s_2012_27				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 04 Feather River			Left	13.27
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	3/25/2016 - 3/30/2016		9/20/2016 - 9/21/2016	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Joe Henderson RD1001		Joe Henderson RD1001	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Reclamation District No. 1001 Nicolaus

View of the waterside maintained vegetation looking downstream. Fall 2016.

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Reclamation District No. 1001 Nicolaus

Reclamation District No. 1001 Nicolaus

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	0.51	Rating **	N	Issue No.	21
LM End	0.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.933796 °	38.933796 °
				-121.567047 °	-121.567047 °
DWR ID	DWR_RD1001_04_f _ 2015_21				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Remove stump from the landside levee slope.					

View of a stump in the landside levee slope. Fall 2016.

LM Start	0.55	Rating **	M	Issue No.	68
LM End	0.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.933299 °	38.933299 °
				-121.567069 °	-121.567069 °
DWR ID	DWR_RD1001_04_s_2016_68				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

A photograph showing a dry, rocky landscape with sparse, yellowish-brown vegetation. A gravel path or road is visible in the foreground. A date stamp '08/26/2015' is present in the bottom right corner.

View of ruts caused by vehicle on the landside levee slope. Fall 2016.

LM Start	0.55	Rating **	N	Issue No.	60
LM End	0.55	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.933229 °	38.933229 °
				-121.567097 °	-121.567097 °
DWR ID	DWR_RD1001_04_f_2016_60				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

View of tree stump, waterside crown at gate. Fall 2016.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	0.55	Rating **	N	Issue No.	61
LM End	0.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.933229 °	38.933229 °
				-121.567097 °	-121.567097 °
DWR ID	DWR_RD1001_04_f _ 2016_61				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

A photograph of a rural landscape. In the foreground, a rusty metal gate and a barbed wire fence are partially visible, surrounded by dry, yellowed grass. The middle ground is a large, open field of dry, yellowed grass. In the background, a line of trees is visible under a clear blue sky. A date stamp '08/25/2016' is located in the bottom right corner of the image.

View of tree stump, landside crown at gate. Fall 2016.

LM Start	0.78	Rating **	A	Issue No.	31
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.930026 °	38.930026 °
				-121.567918 °	-121.567918 °
DWR ID	DWR_RD1001_04_f _ 2015_31				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
As of Fall 2016, the vegetation has been removed.					

View of the tall vegetation at the landside levee toe, Fall 2015. As of Fall 2016 the vegetation has been removed.

LM Start	1.06	Rating **	N	Issue No.	69
LM End	1.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.926128 °	38.926128 °
				-121.568241 °	-121.568241 °
DWR ID	DWR_RD1001_04_s_2016_69				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

View of stump at landside levee toe. Fall 2016.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	2.05	Rating **	A/W	Issue No.	39
LM End	2.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.912664 °	38.912664 °
				-121.572928 °	-121.572928 °
DWR ID	DWR_RD1001_04_s_2015_39				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_38_39_20160926_00061.jpg



Tree limbs have been trimmed to allow visibility and access on the landside looking downstream. Fall 2016.

LM Start	2.17	Rating **	C	Issue No.	70
LM End	2.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.911156 °	38.911156 °
				-121.574031 °	-121.574031 °
DWR ID	DWR_RD1001_04_s_2016_70				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
The wild growth has been removed with the annual vegetation maintenance. Fall 2016.					

No Photos

LM Start	2.27	Rating **	M	Issue No.	19
LM End	2.27	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.909790 °	38.909790 °
				-121.574449 °	-121.574449 °
DWR ID	DWR_RD1001_04_s_2013_19				
Comment Code					
PO : Pole					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_38_19_20160926_00062.jpg



View of power pole and guy wire on the levee slope. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 1001 Nicolaus

View of Buildings along the toe within the easement of the landside levee. Fall 2016.

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Reclamation District No. 1001 Nicolaus

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	2.76	Rating **	M	Issue No.	34
LM End	2.76	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.904351 °	38.904351 °
				-121.579718 °	-121.579718 °
DWR ID	DWR_RD1001_04_f_2015_34				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_38_34_20160926_00066.jpg



View of a shed in the easement of the landside levee. Fall 2016.

LM Start	3.70	Rating **	C	Issue No.	62
LM End	3.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.895294 °	38.895294 °
				-121.592228 °	-121.592228 °
DWR ID	DWR_RD1001_04_f_2016_62				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
The ruts that where there at time of Fall 2016 inspection has been corrected.					

No Photos

LM Start	4.05	Rating **	C	Issue No.	65
LM End	4.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.892867 °	38.892532 °
				-121.597917 °	-121.598697 °
DWR ID	DWR_RD1001_04_f_2016_65				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
The ruts that where there at time of Fall 2016 inspection has been corrected.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	5.22	Rating **	M	Issue No.	78
LM End	5.22	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.881768 °	38.881768 °
				-121.611302 °	-121.611302 °
DWR ID	DWR_RD1001_04_s_2016_78				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 2 : FA_2016_RD1001_38_78_20160906_00028.jpg



Ruts on waterside slope due to vehicles. Spring 2016.

LM Start	5.22	Rating **	M	Issue No.	78 (cont)
LM End	5.22	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_RD1001_38_78_20160926_00069.jpg



Ruts still there on waterside slope due to vehicles. Fall 2016.

LM Start	5.55	Rating **	M	Issue No.	79
LM End	5.55	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.877256 °	38.877256 °
				-121.613073 °	-121.613073 °
DWR ID	DWR_RD1001_04_s_2016_79				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	5.71	Rating **	M	Issue No.	27
LM End	5.71	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.874984 °	38.874984 °
				-121.614242 °	-121.614242 °
DWR ID	DWR_RD1001_04_s_2015_27				
Comment Code					
PO : Pole					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_38_27_20160926_00070.jpg



View of pole on landside, no lines connected to it. Fall 2016.

LM Start	5.78	Rating **	M	Issue No.	154
LM End	5.78	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.874113 °	38.874113 °
				-121.614846 °	-121.614846 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:14604 DS_ID:22573 EP_NO: 10389 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - water leakage causes erosion on LS slope.- may be pressure breaker valve not closed properly on LS.- a 36-inch concrete standpipe at the landward toe not found. FIELD_STRUCT_DESC: 12-inch irrigation pipe through the levee, 10.0 feet below the crown, slant pump on the bank, siphon breaker in a 24-inch corrugated metal pipe riser on the landward slope, pipe discharges into a 36-inch concrete standpipe at the landward toe, pipe installed by the U.S.C.E. in 1963, switch panel and service pole at the landward toe (Permit No. 10389, 1974) FS Date: 5/16/2013					

Photo 1 of 2 : UCIP_FA_2016_14604_24107.jpg



WS- slanted pump station on steel platform on levee berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	5.78	Rating **	M	Issue No.	154 (cont)	
LM End	5.78	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.874113 °		38.874113 °
				-121.614846 °		-121.614846 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:14604						
DS_ID:22573						
EP_NO: 10389						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - water leakage causes erosion on LS slope.- may be pressure breaker valve not closed properly on LS.- a 36-inch concrete standpipe at the landward toe not found.						
FIELD_STRUCT_DESC: 12-inch irrigation pipe through the levee, 10.0 feet below the crown, slant pump on the bank, siphon breaker in a 24-inch corrugated metal pipe riser on the landward slope, pipe discharges into a 36-inch concrete standpipe at the landward toe, pipe installed by the U.S.C.E. in 1963, switch panel and service pole at the landward toe (Permit No. 10389, 1974)						
FS Date: 5/16/2013						

Photo 2 of 2 : UCIP_FA_2016_14604_24106.jpg



WS- inlet pipe on the river bank.

LM Start	5.80	Rating **	M	Issue No.	2
LM End	5.93	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.874113 °	38.872373 °
				-121.615380 °	-121.616504 °
DWR ID	DWR_RD1001_04_s_2016_2				
Comment Code					
Inspector Comment					
2011 - Erosion pockets from tree popouts. Sections of the lower bank have slumped off. 2013 - Scallops from tree popouts no longer visible on site. Minor new erosion at the middle of the bank. 2015: Fresh erosion from human use. [2015 Site ID: FHR_6-6_L]					

Photo 1 of 1 : FA_2016_RD1001_38_2_20160906_00002.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	5.96	Rating **	A/W	Issue No.	40
LM End	5.96	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.871770 °	38.871770 °
				-121.616304 °	-121.616304 °
DWR ID	DWR_RD1001_04_s_2015_40				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_38_40_20160926_00071.jpg



Vegetation was introduced to this location.

LM Start	6.39	Rating **	U	Issue No.	17
LM End	6.46	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.866032 °	38.865195 °
				-121.619489 °	-121.620017 °
DWR ID	DWR_RD1001_04_s_2012_17				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_38_17_20160926_00078.jpg



View of landscaping on the landside shoulder and slope looking downstream. Fall 2016.

LM Start	6.42	Rating **	M	Issue No.	5
LM End	6.51	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.865875 °	38.864706 °
				-121.619983 °	-121.620813 °
DWR ID	DWR_RD1001_04_s_2016_5				
Comment Code					
Inspector Comment					
2011 - Tall slumping sections. Scour around trees has exposed most of the roots. 2015: Recent large slope failure observed. [2015 Site ID: FHR_6-0_L]					

Photo 1 of 1 : FA_2016_RD1001_38_5_20160906_00005.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	6.57	Rating **	M	Issue No.	4
LM End	6.77	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.863946 °	38.861558 °
				-121.621388 °	-121.623316 °
DWR ID	DWR_RD1001_04_s_2016_4				
Comment Code					
Inspector Comment					
2011 - Large slumped sections on the lower bank. 2012 - New cracks observed. 2015: No observed changes. [2015 Site ID: FHR_5-8_L]					

USACE 2013 Photo #1

LM Start	6.80	Rating **	A/W	Issue No.	28
LM End	6.80	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.861071 °	38.861071 °
				-121.623332 °	-121.623332 °
DWR ID	DWR_RD1001_04_s_2013_28				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

Vegetation Site
Progress
by the U.S. Army Corps of Engineers / U.S. Army Corps of Engineers / U.S. Army Corps of Engineers
PLEASE DO NOT REMOVE

Revegetation site. Spring 2013

LM Start	6.81	Rating **	M	Issue No.	84
LM End	6.81	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.860852 °	38.860852 °
				-121.623490 °	-121.623490 °
DWR ID	DWR_RD1001_04_s_2016_84				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	7.41	Rating **	C	Issue No.	43
LM End	7.41	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.853221 °	38.853221 °
				-121.628469 °	-121.628469 °
DWR ID	DWR_RD1001_04_f_2013_43				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landscaping has been removed from this location.					

No Photos

LM Start	7.47	Rating **	M	Issue No.	8
LM End	7.79	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.852394 °	38.848004 °
				-121.629231 °	-121.630873 °
DWR ID	DWR_RD1001_04_s_2016_8				
Comment Code					
Inspector Comment					
2000 - Steep bank off berm with some slumps and fallen trees, continued erosion. 2002 - Site lengthened upstream and downstream due to vertical bank along most of the reach. 2010 - Site extended upstream. 2011 - Minimal new erosion. 2012 - Site extended on the upstream end, new tree pop-out, and bank erosion continues to worsen. 2013 - Minor new erosion at the toe and top of bank. 2015: No observed changes. [2015 Site ID: FHR_5-0_L]					

Photo 1 of 1 : FA_2016_RD1001_38_8_20160906_00008.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 1001 Nicolaus

No Photos

View of vertical cut for ramp in the landside levee slope looking upstream. Fall 2016.

No Photos

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**Flood Control Project Maintenance
Levee Inspections**

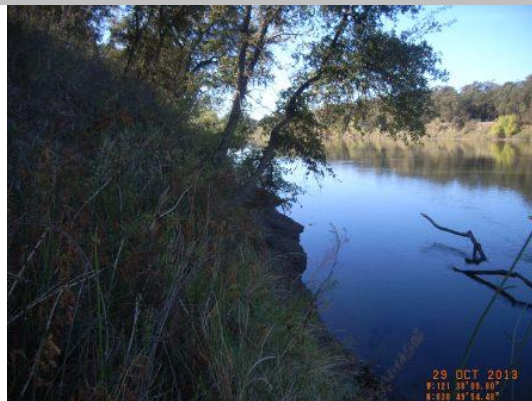
Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	8.57	Rating **	M	Issue No.	7
LM End	8.97	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.836966 °	38.831498 °
				-121.634128 °	-121.636371 °
DWR ID	DWR_RD1001_04_s_2016_7				
Comment Code					
Inspector Comment					
2006 - Sandy, silty bank with intermittent pockets of erosion. Rotational failure and tree pop outs are most of the problem. Some upper slope fluvial erosion. 2010 - Site extended upstream. The lower Feather may benefit from a regional repair. 2011 - Site combined with 3.6. Minimal new erosion. 2013 - New erosion observed at bank toe. Trees on site now have exposed roots. 2015: No observed changes. [2015 Site ID: FHR 3-8 L]					

Photo 1 of 1 : FA_2016_RD1001_38_7_20160906_00007.jpg



USACE 2013 Photo #1

LM Start	8.60	Rating **	C	Issue No.	83
LM End	8.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.836398 °	38.836398 °
				-121.633621 °	-121.633621 °
DWR ID	DWR_RD1001_04_s_2016_83				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Tree stump has been removed.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	8.65	Rating **	M	Issue No.	12
LM End	8.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.835766 °	38.834778 °
				-121.633966 °	-121.634316 °
DWR ID	DWR_RD1001_04_s_2012_12				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	9.15	Rating **	M	Issue No.	156
LM End	9.15	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.828893 °	38.828893 °
				-121.637219 °	-121.637219 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:14563 DS_ID:22577 EP_NO: 12828 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - needs detailed investigation for road surface cracks FIELD_STRUCT_DESC: 16-inch asphalt-coated steel irrigation pipe through the levee, 4.3 feet below the crown, 30-horsepower slant pump and platform on the bank (Permit No. 12828, 1979). O&M Manual Sac 141.1, August 1955. FS Date: 5/16/2013					

Photo 1 of 2 : UCIP_FA_2016_14563_24002.jpg



WS- slanted pipe in steel structure on river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	9.15	Rating **	M	Issue No.	156 (cont)	
LM End	9.15	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.828893 °	38.828893 °	
				-121.637219 °	-121.637219 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:14563 DS_ID:22577 EP_NO: 12828 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - needs detailed investigation for road surface cracks FIELD_STRUCT_DESC: 16-inch asphalt-coated steel irrigation pipe through the levee, 4.3 feet below the crown, 30-horsepower slant pump and platform on the bank (Permit No. 12828, 1979). O&M Manual Sac 141.1, August 1955. FS Date: 5/16/2013						

Photo 2 of 2 : UCIP_FA_2016_14563_24001.jpg



WS- inlet pipe and main pipe in pump station on river bank.

LM Start	9.44	Rating **	M	Issue No.	153	
LM End	9.44	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.825107 °	38.825107 °	
				-121.639369 °	-121.639369 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:14544						
DS_ID:22592						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - seems abandoned pipe crossing.- needs properly abandoned.- a 48" steel tank not found on landside.						
FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 5.0 feet below the crown, pump on the bank, pipe discharges into a 48-inch steel tank at the landward toe (Johnston)						
FS Date: 5/16/2013						

Photo 1 of 2 : UCIP_FA_2016_14544_23966.jpg



WS- damaged pipe with holes, cracks on levee slope. River bank is not visible due to dense vegetation (top)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	9.44	Rating **	M	Issue No.	153 (cont)	
LM End	9.44	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.825107°	38.825107°	
				-121.639369°	-121.639369°	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:14544 DS_ID:22592 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - seems abandoned pipe crossing.- needs properly abandoned.- a 48" steel tank not found on landside. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 5.0 feet below the crown, pump on the bank, pipe discharges into a 48-inch steel tank at the landward toe (Johnston) FS Date: 5/16/2013						

Photo 2 of 2 : UCIP_FA_2016_14544_23965.jpg



WS- abandoned damaged pipe with holes, cracks on levee slope.

LM Start	9.44	Rating **	C	Issue No.	45
LM End	9.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.825008 °	38.825008 °
				-121.639361 °	-121.639361 °
DWR ID	DWR_RD1001_04_s_2015_45				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Shoulder of crown has been repaired.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	9.52	Rating **	M	Issue No.	80
LM End	9.52	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.823911 °	38.823911 °
				-121.639869 °	-121.639869 °
DWR ID	DWR_RD1001_04_s_2016_80				
Comment Code					
PO : Pole					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_38_80_20160926_00076.jpg



View of pole on waterside crown. Fall 2016.

LM Start	9.58	Rating **	M	Issue No.	82
LM End	9.58	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.823053 °	38.823053 °
				-121.639911 °	-121.639911 °
DWR ID	DWR_RD1001_04_s_2016_82				
Comment Code					
DE : Debris					
Inspector Comment					
Old fence post pile at landside levee toe.					

Photo 1 of 1 : FA_2016_RD1001_38_82_20160926_00077.jpg



View of a pile of fence post at the landside levee toe. Fall 2016.

LM Start	9.61	Rating **	M	Issue No.	37
LM End	9.61	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.822725 °	38.822725 °
				-121.640018 °	-121.640018 °
DWR ID	DWR_RD1001_04_f_2015_37				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Oleanders in front of a house on the water side.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	9.92	Rating **	M	Issue No.	152
LM End	9.92	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.818341 °	38.818341 °
				-121.638890 °	-121.638890 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:14627					
DS_ID:22578					
EP_NO: 3297					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - needs properly abandoned.- dismantled standpipe found on LS levee slope					
FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 3.0 feet below the crown, slant pump mounted on a steel structure on the bank, siphon breaker on the landward shoulder, pipe discharges into a 24-inch concrete standpipe at the landward toe (Permit No. 3297, 1960).					
FS Date: 5/16/2013					

LM Start	9.92	Rating **	M	Issue No.	152 (cont)
LM End	9.92	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_14627_24134.jpg



WS- exposed pipe on levee slope and pump station in river bank.

Photo 2 of 2 : UCIP_FA_2016_14627_24133.jpg



WS- exposed pipe on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	9.97	Rating **	M	Issue No.	66
LM End	9.97	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.817659 °	38.817659 °
				-121.638404 °	-121.638404 °
DWR ID	DWR_RD1001_04_f_2016_66				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree pushed up to levee toe.					

Photo 1 of 1 : FA_2016_RD1001_38_66_20160927_00083.jpg



View of large tree pushed up to the landside levee toe. Fall 2016.

LM Start	10.14	Rating **	M	Issue No.	158
LM End	10.14	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.815530 °	38.815530 °
				-121.636918 °	-121.636918 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41723 DS_ID:22572 EP_NO: 1881 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - burried slide gate found on WS slope.- concrete box at the landward toe not found. FIELD_STRUCT_DESC: 18-inch steel pipe through the levee, 5.0 feet below the crown, slant pump mounted on a pile structure on the bank, gate valve on the waterward slope, siphon breaker on the landward shoulder, pipe discharges into a concrete box at the landward toe (Permit No. 1881, 1954). FS Date: 5/16/2013					

Photo 1 of 2 : UCIP_FA_2016_41723_23977.jpg



WS- slant pump on steel structure in river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	10.14	Rating **	M	Issue No.	158 (cont)	
LM End	10.14	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.815530 °		38.815530 °
				-121.636918 °		-121.636918 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:41723 DS_ID:22572 EP_NO: 1881 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - burried slide gate found on WS slope.- concrete box at the landward toe not found. FIELD_STRUCT_DESC: 18-inch steel pipe through the levee, 5.0 feet below the crown, slant pump mounted on a pile structure on the bank, gate valve on the waterward slope, siphon breaker on the landward shoulder, pipe discharges into a concrete box at the landward toe (Permit No. 1881, 1954). FS Date: 5/16/2013						

Photo 2 of 2 : UCIP_FA_2016_41723_23976.jpg



WS- main steel pipe on levee surface (without paint).

LM Start	10.60	Rating **	M	Issue No.	30
LM End	10.60	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.809257 °	38.809257 °
				-121.633909 °	-121.633909 °
DWR ID	DWR_RD1001_04_s_2013_30				
Comment Code					
RW : Retaining Wall					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_38_30_20160906_00017.jpg



A retaining wall is within the profile of the slope. Spring 2013

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	10.60	Rating **	M	Issue No.	29
LM End	10.60	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.809256 °	38.809256 °
				-121.633908 °	-121.633908 °
DWR ID	DWR_RD1001_04_s _ 2013_29				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_38_29_20160906_00016.jpg



The building is within the easement of the levee. Spring 2013

LM Start	10.88	Rating **	C	Issue No.	48
LM End	10.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.805312 °	38.805312 °
				-121.633300 °	-121.633300 °
DWR ID	DWR_RD1001_04_s _ 2015_48				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
These ruts have been repaired. Fall 2016.					

No Photos

LM Start	11.01	Rating **	C	Issue No.	55
LM End	11.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.803492 °	38.803492 °
				-121.632832 °	-121.632832 °
DWR ID	DWR_RD1001_04_f _ 2015_55				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There is no new activity at this location and holes seem to be abandoned. Fall 2016.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	11.05	Rating **	M	Issue No.	22
LM End	11.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.802875 °	38.802000 °
				-121.632862 °	-121.632763 °
DWR ID	DWR_RD1001_04_s_2012_22				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	11.09	Rating **	C	Issue No.	81
LM End	11.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.802270 °	38.802270 °
				-121.632818 °	-121.632818 °
DWR ID	DWR_RD1001_04_s_2016_81				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
These ruts have been repaired. Fall 2016.					

No Photos

LM Start	11.13	Rating **	A/W	Issue No.	50
LM End	11.13	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.801689 °	38.801689 °
				-121.632667 °	-121.632667 °
DWR ID	DWR_RD1001_04_s_2015_50				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_38_50_20160927_00087.jpg



Vegetation has been introduced in this area. Photo taken Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	11.18	Rating **	M	Issue No.	6
LM End	11.37	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.800920 °	38.798165 °
				-121.633050 °	-121.631939 °
DWR ID	DWR_RD1001_04_s_2016_6				
Comment Code					
Inspector Comment					
2000 - Site is relatively stable except for some toe erosion at the upstream end, recommend monitoring the upstream end. 2004 - Some new block failures (10ft deep) at the toe of the upstream end. 2007 - Some minor new slumping at the waterline. 2013 - Minor new erosion along the bank toe. 2015: No observed changes. [2015 Site ID: FHR_1-0_L]					

Photo 1 of 1 : FA_2016_RD1001_38_6_20160906_00006.jpg



USACE 2013 Photo #1

LM Start	11.20	Rating **	C	Issue No.	51
LM End	11.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.800697 °	38.800697 °
				-121.632382 °	-121.632382 °
DWR ID	DWR_RD1001_04_s_ 2015_51				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
These ruts have been repaired. Fall 2016.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	11.24	Rating **	M	Issue No.	23
LM End	11.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.800174 °	38.800174 °
				-121.632227 °	-121.632227 °
DWR ID	DWR_RD1001_04_s_2012_23				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

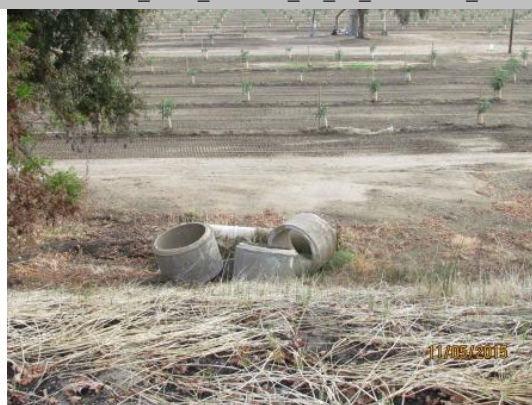
No Photos

LM Start	11.26	Rating **	C	Issue No.	52
LM End	11.26	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.799820 °	38.799820 °
				-121.632070 °	-121.632070 °
DWR ID	DWR_RD1001_04_s_2015_52				
Comment Code					
PR : Prunings					
Inspector Comment					
The pruning's at this location have been removed. Fall 2016.					

No Photos

LM Start	11.28	Rating **	M	Issue No.	41
LM End	11.28	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.799635 °	38.799635 °
				-121.631986 °	-121.631986 °
DWR ID	DWR_RD1001_04_f_2015_41				
Comment Code					
MA : Material					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_38_41_20160906_00022.jpg



View of the material at the landside levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	11.28	Rating **	M	Issue No.	155
LM End	11.28	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.799561 °	38.799561 °
				-121.631964 °	-121.631964 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:14548 DS_ID:22580 EP_NO: 3489 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - siphon breaker on the landward shoulder not found.- cracked road surface along the pipe alienment. Needs more investigations. FIELD_STRUCT_DESC: 16-inch pipe through the levee, 3.0 feet below the crown, 40-horsepower slant pump mounted on a steel structure on the bank, pipe discharges into a 36-inch concrete standpipe on the landward toe (Permit No. 3489, 1960). FS Date: 5/16/2013					

Photo 1 of 2 : UCIP_FA_2016_14548_23970.jpg



WS- slant pump on river bank.

LM Start	11.28	Rating **	M	Issue No.	155 (cont)
LM End	11.28	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_14548_23969.jpg



Levee Crown- surface crack along pipe crossing. Needs more investigation.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	11.59	Rating **	M	Issue No.	1
LM End	11.75	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.795455 °	38.793394 °
				-121.629903 °	-121.628156 °
DWR ID	DWR_RD1001_04_s_2016_1				
Comment Code					
Inspector Comment					
1997- Deposits over top of cobble on the upper slope. 2000 - Old cobble site in poor shape; some toe retreat, but little change; steep bank. 2010 - Site extended upstream due to new toe erosion. 2012 - Minor new erosion at toe, new slumping, animals holes and cracks observed. 2015: No observed changes. [2015 Site ID: FHR_0-6_L]					

Photo 1 of 1 : FA_2016_RD1001_38_1_20160906_00001.jpg



USACE 2013 Photo #1

LM Start	11.74	Rating **	M	Issue No.	54
LM End	11.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.793796 °	38.793796 °
				-121.627829 °	-121.627829 °
DWR ID	DWR_RD1001_04_s_2015_54				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Vehicle ruts need to be repaired on the levee shoulder. Fall 2016.					

Photo 1 of 1 : FA_2016_RD1001_38_54_20160927_00089.jpg



View of vehicle ruts in levee shoulder on the waterside looking downstream. Fall 2016.

LM Start	11.89	Rating **	C	Issue No.	38
LM End	11.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.791972 °	38.791972 °
				-121.626204 °	-121.626204 °
DWR ID	DWR_RD1001_04_f_2015_38				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 1001 Nicolaus

No Photos

A photograph showing a large, dark tree trunk and its branches on a grassy hillside. The ground is covered in dry, brown leaves and grass. A date stamp '08/21/2016' is visible in the bottom right corner.

View of a downed tree on the landside levee toe and slope. Fall 2016.

A short section of the levee has limited access. Spring 2013

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	12.48	Rating **	U	Issue No.	25 (cont)	
LM End	12.48	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.786073 °		38.786073 °
				-121.618522 °		-121.618522 °
DWR ID	DWR_RD1001_04_s_2012_25					
Comment Code						
BU : Building						
Inspector Comment						

Photo 2 of 2 : FA_2016_RD1001_38_25_20160906_00014.jpg



A building is at the toe of the levee. Spring 2013

LM Start	12.51	Rating **	A/W	Issue No.	57
LM End	12.51	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.785850 °	38.785850 °
				-121.618071 °	-121.618071 °
DWR ID	DWR_RD1001_04_f_2015_57				
Comment Code					
BU : Building					
Inspector Comment					
New construction pending.					

Photo 1 of 1 : FA_2016_RD1001_38_57_20160906_00024.jpg



View of the house pad at the landside levee toe.

LM Start	12.65	Rating **	M	Issue No.	26
LM End	13.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.784513 °	38.781862 °
				-121.616045 °	-121.607855 °
DWR ID	DWR_RD1001_04_s_2012_26				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 1001 Nicolaus

No Photos

Trees need to be trimmed up at least 5 feet. Spring 2013

View of landside tree that need the limbs trimmed up 5' above the slope for visibility and access. Fall 2016.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 05 Natomas Cross Canal			Right	5.39
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/29/2016 - 3/30/2016		9/21/2016 - 9/21/2016	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Joe Henderson RD1001		Joe Henderson RD1001	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Reclamation District No. 1001 Nicolaus

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	09/21/2016 09/21/2016	Sterling York

LM Start	0.06	Rating **	M	Issue No.	16
LM End	0.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.781999 °	38.781999 °
				-121.605182 °	-121.605182 °
DWR ID	DWR_RD1001_05_f_2015_16				
Comment Code					
RW : Retaining Wall					
Inspector Comment					
Retaining wall is into the landside levee toe, it is part of the carport.					

No Photos

LM Start	0.19	Rating **	M	Issue No.	5
LM End	0.85	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.783758 °	38.791058 °
				-121.604189 °	-121.596562 °
DWR ID	DWR_RD1001_05_s_2012_5				
Comment Code					
PO : Pole					
Inspector Comment					

Photo 1 of 2 : FA_2016_RD1001_39_5_20160906_00001.jpg



RD 1001 Unit 5 - L/S Levee Toe - Poles

LM Start	0.19	Rating **	M	Issue No.	5 (cont)
LM End	0.85	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2016_RD1001_39_5_20160906_00002.jpg



Poles at the land side toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	09/21/2016 09/21/2016	Sterling York

LM Start	0.34	Rating **	C	Issue No.	20
LM End	0.34	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.785609 °	38.785609 °
				-121.602750 °	-121.602750 °
DWR ID	DWR_RD1001_05_s_2016_20				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
The rut has been repaired and new rock is being laid, Fall 2016.					

No Photos

LM Start	0.79	Rating **	M	Issue No.	25	
LM End	0.79	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.790556 °	38.790556 °	
				-121.597477 °	-121.597477 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:14393						
DS_ID:22610						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - needs repair of concrete piers on waterside. Rebar exposed from the pier. Even though this pier is functionally not linked to the pipe, it needs repair.						
FIELD_STRUCT_DESC: 5 of 8: A 24-inch pipe through levee, 25 ft. below the levee crown. Five 5-foot-by-7-foot concrete tunnels through the levee, 25.0 feet below the crown, one tunnel has a 60-inch pump installed inside and is gated on the waterward end, two 50-inch pipes through the levee, 25.0 feet below the crown, all tunnels and pipes are gated, concrete headwall and railing along the landward side (R.D. No. 1001)						
FS Date: 5/15/2013						

Photo 1 of 2 : UCIP_FA_2016_14393_23697.jpg



Location of pipes and tunnels. 24-inch steel pipe located at 5th from the left.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	09/21/2016 09/21/2016	Sterling York

LM Start	0.79	Rating **	M	Issue No.	25 (cont)	
LM End	0.79	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.790556 °	38.790556 °	
				-121.597477 °	-121.597477 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:14393						
DS_ID:22610						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - needs repair of concrete piers on waterside. Rebar exposed from the pier. Even though this pier is functionally not linked to the pipe, it needs repair.						
FIELD_STRUCT_DESC: 5 of 8: A 24-inch pipe through levee, 25 ft. below the levee crown. Five 5-foot-by-7-foot concrete tunnels through the levee, 25.0 feet below the crown, one tunnel has a 60-inch pump installed inside and is gated on the waterward end, two 50-inch pipes through the levee, 25.0 feet below the crown, all tunnels and pipes are gated, concrete headwall and railing along the landward side (R.D. No. 1001)						
FS Date: 5/15/2013						

Photo 2 of 2 : UCIP_FA_2016_14393_23696.jpg



LS- Drainage structure with tunnels, pipes and pump house. Tunnel 1 at far right and tunnel 5 at far left. The pipe is located inside tunnel 3.

LM Start	0.84	Rating **	C	Issue No.	18
LM End	0.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.794589 °	38.794589 °
				-121.590603 °	-121.590603 °
DWR ID	DWR_RD1001_05_s_2015_18				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
The cracks from erosion on the waterside of the levee facing upstream has been repaired and new rock is being laid.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	09/21/2016 09/21/2016	Sterling York

LM Start	1.14	Rating **	A	Issue No.	6
LM End	1.14	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.793613 °	38.793613 °
				-121.592230 °	-121.592230 °
DWR ID	DWR_RD1001_05_s_2012_6				
Comment Code					
PO : Pole					
Inspector Comment					

Photo 1 of 2 : FA_2016_RD1001_39_6_20160906_00003.jpg



Pole on land side shoulder.

LM Start	1.14	Rating **	A	Issue No.	6 (cont)
LM End	1.14	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2016_RD1001_39_6_20160923_00033.jpg



View of pole on land side shoulder looking down stream. Fall 2016.

LM Start	1.54	Rating **	C	Issue No.	21
LM End	1.54	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.797132 °	38.797132 °
				-121.586400 °	-121.586400 °
DWR ID	DWR_RD1001_05_s_2016_21				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
The ruts have been repaired and new rock is being laid, Fall 2016.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	09/21/2016 09/21/2016	Sterling York

LM Start	2.31	Rating **	M	Issue No.	1
LM End	2.34	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.803877 °	38.804206 °
				-121.575053 °	-121.574529 °
DWR ID	DWR_RD1001_05_s_2016_1				
Comment Code					
Inspector Comment					
2006 - Noted old saturation slumping of upper levee slope that is into the levee core (near high water line). 2011 - Erosion is into the top of the levee. This site is actually located at LM 2.5. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: NCC_3-0_R]					

No Photos

LM Start	3.56	Rating **	M	Issue No.	7
LM End	3.81	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.814919 °	38.817178 °
				-121.556712 °	-121.552965 °
DWR ID	DWR_RD1001_05_s_2012_7				
Comment Code					
PO : Pole					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_39_7_20160923_00035.jpg



View of poles on the landside shoulder looking downstream. Fall 2016

LM Start	3.81	Rating **	M	Issue No.	10
LM End	3.81	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.817178 °	38.817178 °
				-121.552965 °	-121.552965 °
DWR ID	DWR_RD1001_05_s_2012_10				
Comment Code					
TA : Tank					
Inspector Comment					
Fuel tank at landside levee toe.					

Photo 1 of 1 : FA_2016_RD1001_39_10_20160923_00036.jpg



View of fuel tank at landside levee toe. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	09/21/2016 09/21/2016	Sterling York

LM Start	3.81	Rating **	M	Issue No.	24
LM End	3.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.817175 °	38.817175 °
				-121.552946 °	-121.552946 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:14486					
DS_ID:22604					
EP_NO: 1896					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field survey- abandoned steel pipe, may need to remove it or properly adandoned.					
FIELD_STRUCT_DESC: 3 of 3: Abandoned 20-inch pipe of three pipes, a 30-inch and two 20-inch corrugated-metal asbestos-bonded pipe through the levee, 2.13 feet below the crown, three vertical pumps on a wooden piling structure in the stream, walkway to the pumps, slide gate in a concrete box on the waterward side (Permit No. 1896)					
FS Date: 5/15/2013					

LM Start	3.81	Rating **	M	Issue No.	24 (cont)
LM End	3.81	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_14486_23913.jpg



WS- pump station, walkway, and slide gate in concrete box.

Photo 2 of 2 : UCIP_FA_2016_14486_23912.jpg



WS- abandoned pipe adjacent to pump station on stream bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	09/21/2016 09/21/2016	Sterling York

LM Start	3.81	Rating **	M	Issue No.	23
LM End	3.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.817175 °	38.817175 °
				-121.552946 °	-121.552946 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:14484 DS_ID:22595 EP_NO: 1896 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field survey FIELD_STRUCT_DESC: 1 of 3: A 20-inch steel pipe of three pipes (a 30-inch and two 20-inch corrugated-metal asbestos-bonded pipe) through the levee, 2.13 feet below the crown, three vertical pumps on a wooden piling structure in the stream, walkway to the pumps, slide gate in a concrete box on the waterward side (Permit No. 1896) FS Date: 5/15/2013					

LM Start	3.81	Rating **	M	Issue No.	23 (cont)
LM End	3.81	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_14484_23894.jpg



WS- overview of pump station, walkway, and slide gate in concrete box.

Photo 2 of 2 : UCIP_FA_2016_14484_23898.jpg



WS- slide gate in concrete box on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	09/21/2016 09/21/2016	Sterling York

LM Start	3.81	Rating **	M	Issue No.	22
LM End	3.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.817175 °	38.817175 °
				-121.552946 °	-121.552946 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:14472 DS_ID:22613 EP_NO: 1896 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field survey FIELD_STRUCT_DESC: 2 of 3: Three pipes, a 32-inch and two 20-inch steel pipe through the levee, 2.13 feet below the crown, two vertical pumps on a wooden piling structure in the stream, walkway to the pumps, slide gate in a concrete box on the waterward side (Permit No. 1896) FS Date: 5/15/2013					

LM Start	3.81	Rating **	M	Issue No.	22 (cont)
LM End	3.81	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_14472_23891.jpg



WS- pump station, walkway, and slide gate in concrete box on levee toe

Photo 2 of 2 : UCIP_FA_2016_14472_23890.jpg



WS- slide gate in concrete box on levee toe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 06 East Side Canal			Right	4.74
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/29/2016 - 3/30/2016		9/21/2016 - 9/21/2016	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Joe Henderson RD1001		Joe Henderson RD1001	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	09/21/2016 09/21/2016	Sterling York

LM Start	0.00	Rating **	A	Issue No.	16
LM End	4.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.831088 °	38.896359 °
				-121.529762 °	-121.520372 °
DWR ID	DWR_RD1001_06_f_2016_16				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The Levee has no unwanted vegetation blocking visibility or access; vegetation is very well maintained.					

Photo 1 of 1 : FA_2016_RD1001_40_16_20160923_00038.jpg



View of maintained annual grasses, water side, looking upstream. Fall 2016.

LM Start	0.00	Rating **	A	Issue No.	17
LM End	4.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.831088 °	38.896359 °
				-121.529762 °	-121.520372 °
DWR ID	DWR_RD1001_06_f_2016_17				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The Levee has no unwanted vegetation blocking visibility or access; vegetation is very well maintained.					

Photo 1 of 1 : FA_2016_RD1001_40_17_20160923_00036.jpg



View of maintained vegetation. Fall 2016.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	09/21/2016 09/21/2016	Sterling York

LM Start	0.01	Rating **	M	Issue No.	18
LM End	0.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.831192 °	38.831192 °
				-121.529580 °	-121.529580 °
DWR ID	DWR_RD1001_06_s_2016_18				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_40_18_20160923_00035.jpg



View of trees that need to be trimmed for visibility on the landside looking upstream. Fall 2016.

LM Start	0.02	Rating **	M	Issue No.	20
LM End	0.43	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.831243 °	38.836832 °
				-121.529519 °	-121.526810 °
DWR ID	DWR_RD1001_06_f_2016_20				
Comment Code					
FE : Fence					
Inspector Comment					
Fence along the landside levee toe.					

Photo 1 of 1 : FA_2016_RD1001_40_20_20160923_00037.jpg



View of fence along the landside levee toe looking upstream. Fall 2016.

LM Start	0.02	Rating **	C	Issue No.	14
LM End	0.39	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.831314 °	38.836243 °
				-121.529417 °	-121.527038 °
DWR ID	DWR_RD1001_06_f_2015_14				
Comment Code					
DT : Ditch					
Inspector Comment					
Ditch is part of RD drainage from flap gate to the north to RD lateral to the south and is part of the as-built. This issue will be corrected.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	09/21/2016 09/21/2016	Sterling York

LM Start	0.95	Rating **	M	Issue No.	46
LM End	0.95	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.844109 °	38.844109 °
				-121.524375 °	-121.524375 °
DWR ID	DWR_RD1001_06_s_2012_46				
Comment Code					
TA : Tank					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_40_46_20160923_00039.jpg



View of a propane tank that is within the landside easement of the levee.
Fall 2016.

LM Start	1.36	Rating **	C	Issue No.	6
LM End	1.36	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.850042 °	38.850042 °
				-121.524359 °	-121.524359 °
DWR ID	DWR_RD1001_06_s_2012_6				
Comment Code					
EQ : Equipment					
Inspector Comment					
Equipment has been moved away from landside toe.					

No Photos

LM Start	1.43	Rating **	M	Issue No.	3
LM End	1.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.850945 °	38.852445 °
				-121.524392 °	-121.524809 °
DWR ID	DWR_RD1001_06_s_2012_3				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_40_3_20160906_00001.jpg



View of the equipment at the landside levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	09/21/2016 09/21/2016	Sterling York

LM Start	1.72	Rating **	M	Issue No.	50
LM End	1.72	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.855186 °	38.855186 °
				-121.524895 °	-121.524895 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:14244					
DS_ID:22617					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - visible damage to pipe on opening at inlet due to high corrosion.- video inspection recommended.					
FIELD_STRUCT_DESC: 36-inch corrugated-metal drainage pipe through the levee, 12.5 feet below the crown, slide gate in a 48-inch corrugated-metal pipe riser on the waterward slope, concrete headwall at the landward toe, the pipe crosses under the channel.					
FS Date: 5/15/2013					

Photo 1 of 2 : UCIP_FA_2016_14244_23467.jpg



WS- slide gate in CMP riser on levee slope.

LM Start	1.72	Rating **	M	Issue No.	50 (cont)
LM End	1.72	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_14244_23466.jpg



WS- slide gate, air vent pipe in CMP riser on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	09/21/2016 09/21/2016	Sterling York

LM Start	2.03	Rating **	M	Issue No.	49
LM End	2.03	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.859601 °	38.859601 °
				-121.524885 °	-121.524885 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:14223					
DS_ID:22616					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - pipe buried/submerged on LS- needs cleaning of LS pipe end opening.					
FIELD_STRUCT_DESC: 24-inch corrugated-metal drainage pipe through the levee, 15.5 feet below the crown, slide gate in a 36-inch corrugated-metal pipe riser on the waterward slope, concrete headwall at the landward toe, the pipe crosses under the channel					
FS Date: 5/15/2013					

LM Start	2.03	Rating **	M	Issue No.	49 (cont)
LM End	2.03	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_14223_23445.jpg



WS- slide gate in CMP riser on levee slope.

Photo 2 of 2 : UCIP_FA_2016_14223_23444.jpg



LS- concrete wing wall on levee toe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	09/21/2016 09/21/2016	Sterling York

LM Start	2.05	Rating **	A/W	Issue No.	8
LM End	2.05	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.860002 °	38.860002 °
				-121.524873 °	-121.524873 °
DWR ID	DWR_RD1001_06_s_2012_8				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Crown where there is cross traffic. Monitor this area and fix as needed.					

Photo 1 of 1 : FA_2016_RD1001_40_8_20160923_00041.jpg



View of crown where there is cross traffic looking upstream. Monitor this area and fix as needed.

LM Start	2.29	Rating **	U	Issue No.	56
LM End	2.29	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.863385 °	38.863385 °
				-121.524866 °	-121.524866 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50692 DS_ID:22622 EP_NO: 12208 Repair Type: Urgent Crossing Status: Found UCIP Comments: 07/13/2016 Depression on WS berm has been backfilled, but the cause of the erosion was not addressed to my knowledge. As such, pipe integrity problem may still exist. Vegetation growth surrounds pipe on WS berm, in strike contrast to dry grass away from pipe alignment. This could be due to channel draining toward the pipe, or an indication of pipe leakage. (K. Fazel - UCIP)05/15/2013:- large pit at pipe daylight on WS berm, may be due to pipe leakage.- siphon breaker on LS shoulder not found. (P. Amatya - DWR) FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 3 feet below the crown. 16-inch low-lift pump in the channel with a 1-inch electrical line also penetrating the levee to the power pole off the landside (LS) toe. 36-inch corrugated metal pipe (CMP) riser on the bank. Vent on the LS shoulder. Siphon breaker/vent on the apex of the pipe near the WS pump. Standpipe off the LS toe. Pipe used seasonally only in the absense of groundwater, as per district president Joe Henderson. (Permit No. 12208, 1977 - Cuguet). [Additional Reference(s): DWR Levee Log, 1993] FS Date: 7/13/2016					

Photo 1 of 2 : UCIP_FA_2016_50692_23427.jpg



WS- pump and pipe on river bank

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	09/21/2016 09/21/2016	Sterling York

LM Start	2.29	Rating **	U	Issue No.	56 (cont)
LM End	2.29	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.863385 °	38.863385 °
				-121.524866 °	-121.524866 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50692 DS_ID:22622 EP_NO: 12208 Repair Type: Urgent Crossing Status: Found UCIP Comments: 07/13/2016 Depression on WS berm has been backfilled, but the cause of the erosion was not addressed to my knowledge. As such, pipe integrity problem may still exist. Vegetation growth surrounds pipe on WS berm, in strike contrast to dry grass away from pipe alignment. This could be due to channel draining toward the pipe, or an indication of pipe leakage. (K. Fazel - UCIP)05/15/2013:- large pit at pipe daylight on WS berm, may be due to pipe leakage.- siphon breaker on LS shoulder not found. (P. Amatya - DWR) FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 3 feet below the crown. 16-inch low-lift pump in the channel with a 1-inch electrical line also penetrating the levee to the power pole off the landside (LS) toe. 36-inch corrugated metal pipe (CMP) riser on the bank. Vent on the LS shoulder. Siphon breaker/vent on the apex of the pipe near the WS pump. Standpipe off the LS toe. Pipe used seasonally only in the absense of groundwater, as per district president Joe Henderson. (Permit No. 12208, 1977 - Cuguet). [Additional Reference(s): DWR Levee Log, 1993] FS Date: 7/13/2016					

Photo 2 of 2 : UCIP_FA_2016_50692_23429.jpg



WS- large depression on levee berm

LM Start	3.03	Rating **	A	Issue No.	21
LM End	3.03	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.874211 °	38.874211 °
				-121.524824 °	-121.524824 °
DWR ID	DWR_RD1001_06_f_2016_21				
Comment Code					
PO : Pole					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_40_21_20160923_00044.jpg



View of pole on landside levee slope looking upstream. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	09/21/2016 09/21/2016	Sterling York

LM Start	3.03	Rating **	M	Issue No.	55
LM End	3.03	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.874217 °	38.874217 °
				-121.524807 °	-121.524807 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41674 DS_ID:22629 EP_NO: 2768 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and if so should be done so properly.- Pipe capped on waterside.- a concrete pipe support saddle found on waterside levee slope.- also, an abandoned pipe found on landside levee slope. FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 1.3 feet below the crown, pump on the waterward toe removed, gate valve on the waterward slope removed, the pipe is exposed on both slopes and discharges into a culvert on the landward toe across and under Pacific Avenue (Permit No. 2768, 1958) FS Date: 5/15/2013					

Photo 1 of 2 : UCIP_FA_2016_41674_23382.jpg



WS- an abandoned pipe on levee slope

LM Start	3.03	Rating **	M	Issue No.	55 (cont)
LM End	3.03	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_41674_23381.jpg



WS- an abandoned end capped pipe on levee slope

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	09/21/2016 09/21/2016	Sterling York

LM Start	3.28	Rating **	M	Issue No.	53
LM End	3.28	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.877706 °	38.877706 °
				-121.524787 °	-121.524787 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:14167					
DS_ID:22630					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - pipe opens in irrigation ditch on landside.-					
vegetation cleaning on LS pipe opening.					
FIELD_STRUCT_DESC: 24-inch corrugated-metal drainage pipe					
through the levee, 12.0 feet below the crown, slide gate in a 36-inch					
corrugated-metal pipe riser on the waterward slope, concrete headwall					
at the landward toe, the pipe crosses under the channel					
FS Date: 5/15/2013					

LM Start	3.28	Rating **	M	Issue No.	53 (cont)
LM End	3.28	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_14167_23396.jpg



LS- vegetation on CMP end.

Photo 2 of 2 : UCIP_FA_2016_14167_23395.jpg



LS- CMP opens in irrigation ditch.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	09/21/2016 09/21/2016	Sterling York

LM Start	3.43	Rating **	M	Issue No.	52
LM End	3.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.879960 °	38.879960 °
				-121.524780 °	-121.524780 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:13523
DS_ID:22619
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: - needs filling/plugging gap between 4-inch and 10-inch pipes.
FIELD_STRUCT_DESC: 1 of 2: A capped 4-inch steel pipe sleeved through a 10-inch steel pipe, located just off the top of the slope on waterside of the levee.
FS Date: 5/15/2013

LM Start	3.43	Rating **	M	Issue No.	52 (cont)
LM End	3.43	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_13523_22121.jpg



WS- a 4-inch steel pipe sleeved through 10-inch steel pipe.

Photo 2 of 2 : UCIP_FA_2016_13523_22120.jpg



WS- gap between two pipes needs to be filled.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	09/21/2016 09/21/2016	Sterling York

LM Start	3.59	Rating **	M	Issue No.	51
LM End	3.59	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.882247 °	38.882247 °
				-121.524762 °	-121.524762 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:13509					
DS_ID:22631					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Only a small section of head wall visible, almost buried.					
FIELD_STRUCT_DESC: 24-inch corrugated-metal drainage pipe through the levee, 12.0 feet below the crown, slide gate in a 36-inch corrugated-metal pipe riser on the waterward slope, concrete headwall at the landward toe, the pipe crosses under the channel					
FS Date: 5/15/2013					

LM Start	3.59	Rating **	M	Issue No.	51 (cont)
LM End	3.59	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_13509_22086.jpg



WS- fixed slide gate in CMP riser on levee slope.

Photo 2 of 2 : UCIP_FA_2016_13509_22085.jpg



LS- almost buried concrete headwall. Only upper portion of the wall is visible.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	09/21/2016 09/21/2016	Sterling York

LM Start	3.70	Rating **	A	Issue No.	48
LM End	3.70	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.883887 °	38.883887 °
				-121.524767 °	-121.524767 °
DWR ID	DWR_RD1001_06_s_2012_48				
Comment Code					
PO : Pole					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD1001_40_48_20160923_00045.jpg



View of pole on landside levee slope looking upstream. Fall 2016.

LM Start	3.92	Rating **	U	Issue No.	57
LM End	3.92	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.887003 °	38.887003 °
				-121.524746 °	-121.524746 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50699 DS_ID:22632 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 07/13/2016 Same condition as last. Pipe heavily corroded and partially filled with debris and straw. (K. Fazel - UCIP) 05/15/2013:- mud/soil debris on LS pipe end.- highly corroded pipe in outlet.- may require video inspection or pressure test. (P. Amatya - DWR) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.2 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. The pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993] FS Date: 7/13/2016					

Photo 1 of 2 : UCIP_FA_2016_50699_22046.jpg



WS- slide gate, air vent in CMP riser on levee slope

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	09/21/2016 09/21/2016	Sterling York

LM Start	3.92	Rating **	U	Issue No.	57 (cont)	
LM End	3.92	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.887003 °	38.887003 °	
				-121.524746 °	-121.524746 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50699 DS_ID:22632 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 07/13/2016 Same condition as last. Pipe heavily corroded and partially filled with debris and straw. (K. Fazel - UCIP) 05/15/2013:- mud/soil debris on LS pipe end.- highly corroded pipe in outlet.- may require video inspection or pressure test. (P. Amatya - DWR) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.2 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. The pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993] FS Date: 7/13/2016						

Photo 2 of 2 : UCIP_FA_2016_50699_22045.jpg



LS- CMP in concrete head/wing wall outlet

LM Start	4.04	Rating **	A/W	Issue No.	7
LM End	4.04	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.888803 °	38.888803 °
				-121.524738 °	-121.524738 °
DWR ID	DWR_RD1001_06_s_2012_7				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Crown where there is cross traffic. Monitor this area and fix as needed.					

Photo 1 of 1 : FA_2016_RD1001_40_7_20160923_00042.jpg



View of crown where there is cross traffic looking upstream. Monitor this area and fix as needed.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	09/21/2016 09/21/2016	Sterling York

LM Start	4.33	Rating **	A/W	Issue No.	19
LM End	4.33	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.892999 °	38.892999 °
				-121.524711 °	-121.524711 °
DWR ID	DWR_RD1001_06_f_2013_19				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Crown where there is cross traffic. Monitor this area and fix as needed.					

Photo 1 of 1 : FA_2016_RD1001_40_19_20160923_00043.jpg



View of crown where there is cross traffic looking upstream. Monitor this area and fix as needed.

LM Start	4.36	Rating **	M	Issue No.	54
LM End	4.36	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.893448 °	38.893448 °
				-121.524719 °	-121.524719 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41724					
DS_ID:22618					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - damaged head/wing wall in inlet structure.					
FIELD_STRUCT_DESC: 30-inch corrugated-metal gravity irrigation pipe through the levee, 15.9 feet below the crown, slide gate in a 36-inch corrugated-metal pipe riser on the waterward slope, the pipe discharges into a large irrigation ditch on the west side of Pacific Avenue (Joplin and South Sutter Water District)					
FS Date: 5/15/2013					

Photo 1 of 2 : UCIP_FA_2016_41724_22034.jpg



WS- slide gate in CMP riser.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	09/21/2016 09/21/2016	Sterling York

LM Start	4.36	Rating **	M	Issue No.	54 (cont)	
LM End	4.36	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.893448 °	38.893448 °	
				-121.524719 °	-121.524719 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:41724						
DS_ID:22618						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - damaged head/wing wall in inlet structure.						
FIELD_STRUCT_DESC: 30-inch corrugated-metal gravity irrigation pipe through the levee, 15.9 feet below the crown, slide gate in a 36-inch corrugated-metal pipe riser on the waterward slope, the pipe discharges into a large irrigation ditch on the west side of Pacific Avenue (Joplin and South Sutter Water District)						
FS Date: 5/15/2013						

Photo 2 of 2 : UCIP_FA_2016_41724_22033.jpg



WS- inlet wing wall with trashrack

LM Start	4.38	Rating **	N	Issue No.	22
LM End	4.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.893728 °	38.893728 °
				-121.524715 °	-121.524715 °
DWR ID	DWR_RD1001_06_f_2016_22				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
A stump at the landside levee toe.					

Photo 1 of 1 : FA_2016_RD1001_40_22_20160923_00046.jpg



View of a stump at the landside levee toe. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 1001 Nicolaus

View of an old peace of pipe lying on landside levee slope looking upstream. Fall 2016.

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